该文档说明 CC3200R1M2 模块如何进行调试下载:

背景介绍: CC3200R1M2 由于架构的问题,一般是使用调试器通过 2 线 SWD (SOP:001) 或 者 4 线 JTAG(SOP:000)方式下载到 RAM 进行调试,注意只有重新上电,RAM 中的程序就会丢 失,需要重新下载运行。

如果想固化程序需要把模块设置到 Flash 烧写模式即(SOP:100),通过串口引脚通讯下载到模块 Falsh 中。重新上电或者复位就可以运行默认的新程序了。

首先通过下表熟悉模块 boot 模式:

SOP2-0 (SOP2、SOP1、SOP0)	模式
100	下载到 Flash 烧写固化模式
001	2 线 SWD 下载到 RAM 调试模式
000	4线 JTAG 下载到 RAM 调试模式

注意:

使用某种模式时一定设置成对应的 SOP 档位,例如烧写模式一定是 100 不能是 110,101,111. 2 线 SWD 与 4 线 JTAG 相比,使用目的功能是一样的;同时 2 线比 4 线接线更方便,我们模 块只提供了 SOP0 SOP2 拨码设置,可以实现下载调试与烧写固化程序时用的模式。 下图描述了使用到的 SOP 引导拨码开关与服务按键。



在具体说明如何下载调试步骤之前,需要用户准备好相应的硬件设备,并正确安装各种软件 和硬件设备驱动程序。

1. 用 IAR 开发环境, 通过 J-link 0B 调试设备, 使用 2 线

SWD 方式下载到 RAM 中进行调试

需要的硬件设备有:

- CC3200R1M2 核心板模块(购买地址: <u>https://item.taobao.com/item.htm?id=527384117956</u>)
- 2. J-Link OB 调试器(购买地址: https://item.taobao.com/item.htm?id=528005042876)

3. 一台安装 windons 7 系统 pc

需要安装的软件和设备驱动有:

- IAR for ARM 7.3 版本以上
- 正确安装 J-link ob 驱动,并确保可以使用
- 安装 TI 官方最新 CC3200SDK 软件(安装后会找到丰富的测试学习例程)

第1步:将模块的 boot 引导模式 SOP2-0 改为 001,使用 "2线 SWD 下载到 RAM 调试 模式"如图所示。



第2步:将使用 J-Link OB 调试器到核心板,方便起见使用调试器对核心板进行电源供应, J-Link OB 调试器 SWDIO 连接核心板 TMS,J-Link OB 调试器 SWCLK 连接到核心板 TCK 引脚, 两者 GND (公共地)连接到一块, J-Link OB 调试器 VCC(该款调试器供电能力为 300mA) 连接到核心板 VCC 引脚。如下图所示:



第3步:打开 CC3200SDK 安装目录下的 IAR 例程软件 X:\ti\CC3200SDK_1.1.0\cc3200-sdk\example\blinky\ewarm 这是一个闪烁 LED 的实验。 第4步:按照以下图示步骤进行对 IAR 设置并进行下载到 RAM 中的操作。

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当不想调试时记得将 sop 拨码开关归为 000.

2. 用 CCS Uniflash 串口烧写软件, 通过 USB 转串口设备烧录

固化文件到进入模块的 Flash 中。

需要的硬件设备有:

- CC3200R1M2 核心板模块(购买地址: <u>https://item.taobao.com/item.htm?id=527384117956</u>)
- 2. USB 转串口模块调试器(CP2104 设备,购买地址: https://item.taobao.com/item.htm?id=37902897170)
- 3. 一台安装 windons 7 系统 pc

需要安装的软件和设备驱动有:

- CCS Uniflash 烧写软件
- 相关 USB 转串口设备的驱动
- 安装 TI 官方最新 CC3200SDK 软件(安装后会找到丰富的测试学习例程)
- 安装 CC31xx_CC3200_ServicePack 软件(与网络有关的底层程序文件)
 - 1. 将模块拨码开关调整到正确的状态,使用是 SOP2-0: 100(下载到 Flash 烧写固 化模式)。如下图所示。

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2. 连接 USB 转串口模块为了方便起见我们使用 USB 转串口给模块供电,如果你的 模块有其他设备供电请勿接入 VCC,连接如下图示



3. 按照以下图示步骤进行对 Uniflash 设置并进行下载到 flash 中的操作。



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mDNS Client		README.txt	2014/11/1 3:47	文本文档
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在下载完程序时候将模块 boot (SOP0-2) 回复 000 上电就可以运行用户的所烧写的程序了。